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(54) Title: CABLE INSULATION SYSTEM WITH FLEXIBILITY, HIGH TEMPERATURE DEFORMATION RESISTANCE,  
AND REDUCED DEGREE OF STICKINESS

(57) Abstract: The present invention is a cable comprising one or more electrical conductors or a core of one or more electrical con-  
ductors and having each conductor or core being surrounded by a layer of insulation. The insulation comprises an olefinic polymer,  
having a density in the range of 0.880 to 0.915 grams per cubic centimeter, a melting temperature of at least 115 degrees Celsius,  
a melt index in the range of 0.5 to 10 grams per 10 minutes, a crystallization-analysis-soluble fraction in 1,2,4-trichlorobenzene at  
30 degrees Celsius of less than 35 weight percent, and a polydispersity index of at least 3.5. Alternatively, the insulation layer has  
an 1% secant flexural modulus at ambient of less than 15,000 psi and a dynamic elastic modulus at 150 degrees Celsius of at least  
4x10<sup>7</sup> dyne/square centimeter.

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